

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~striketrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

1-10. (Cancelled)

11. (Previously Presented) A method for the transmission of data,
dividing a transmission-end input data stream into individual words;
determining *a-priori* reliability values for positions of a transmittal data block based on
transmission-end modulation methods and coding methods;
allocating the words of the input data stream and transmitting in corresponding positions
of the transmittal data block based on the *a-priori* reliability values;
forming, at a receiving end, an *a-posteriori* reliability value for each word of the
transmittal data block; and
re-requesting received words having a minimum value falling below the *a-posteriori*
reliability value, and re-transmitting from the transmission end.

12. (Previously Presented) A method according to claim 11,
wherein a first word of the input data stream, allocated to a first position of the transmittal
data block with a maximum *a-priori* reliability value, is transmitted first, and
wherein an nth word of the input data stream, allocated to an nth position of the
transmittal data block with a minimum *a-priori* reliability value, is transmitted last.

13. (Previously Presented) A method according to claim 12,
wherein said forming at the receiving end includes determining an ith word at an ith
position in the transmittal data block having an *a-posteriori* reliability value below the minimum
value for the first time, and
wherein said re-requesting includes transmitting the ith position of the ith word to the
transmission end.

14. (Previously Presented) A method according to claim 13, wherein said re-transmitting

includes forming at the transmission end a new transmittal data block in which the *i*th word of the transmittal data block transmitted previously is allocated to the first position for re-transmission and positions following the first position are occupied with following words of the transmittal data block transmitted previously that occupied positions greater than the *i*th position.

15. (Previously Presented) A method according to claim 14, wherein said re-requesting uses a return channel to transmit the *i*th position from the receiving end to the transmission end.

16. (Previously Presented) A method according to claim 15, further comprising:
storing error words of a first transmission considered to be in error at the receiving end;
and
combining the error words with re-transmitted words of a second transmission by using one of a maximum ratio combining method and a code combining method.

17. (Previously Presented) A method according to claim 16, wherein said forming of the *a-posteriori* reliability values at the receiving end uses a soft output decoding method.

18. (Previously Presented) A method according to claim 17, wherein said forming of the *a-posteriori* reliability values at the receiving end uses a trellis decoding method.

19. (Previously Presented) A method according to claim 18, wherein said transmitting of the transmittal data block is a modulated transmission using one of a PSK, a 16QAM and a higher-level modulation method.

20. (Previously Presented) A method according to claim 19, further comprising adding one of a checksum and a CRC data block as a prefix to the transmittal data block for error detection.